

## PATENT ABSTRACTS OF JAPAN

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### (54) INDIVIDUAL IDENTIFYING DEVICE

#### (57)Abstract:

**PURPOSE:** To provide an individual identifying device with improved safety and less burdens of a user utilizing biological information for which feature points are less compared to fingerprints.

**CONSTITUTION:** This device is provided with an illumination means composed of a light source 1 and an optical fiber 2, an image reception means composed of a visible light cutting filter 7, an image forming lens group 8 and an image reception element 9 for receiving a light transmitted through a hand 6 and a computer 12 for processing output from the image reception element 9. The computer 12 functions as a picture processing means for imaging the pattern of blood vessels present under the skin of the hand to pictures and obtaining blood vessel fluoroscopic images, a feature amount extraction

means for extracting the feature amount of an individual from the blood vessel fluoroscopic images, a storage means for storing the feature amount as individual identification information at the time of registration and a discrimination means for judging whether or not the feature amount stored in the storage means matches with the feature amount extracted based on the blood vessel fluoroscopic images outputted from the image reception means at the time of collation.

